

July 2, 1998

To Whom It May Concern

Dear Sir:

I am writing to request your assistance in a study of beach resort design and planning I am conducting as part of my Ph.D. studies. Traditionally beach resort development has given very little consideration to sustainability principles. This study is focused mainly on a successful application of the sustainable design principles. This study will examine the potential for applying sustainable design principles to coastal tourism development. The study is being carried out at Virginia Polytechnic Institute and State University; the results will be useful as a tool to designers, planners, developers, managers, and decision-makers for improving the quality of the existing projects and as a guide for future projects. A copy of the final report will be made available to you upon request.

As part of this study site visits are being conducted of 26 coastal resort projects in the United States and Egypt. The purpose of the visits is to review the nature, character and layout of each of the beach resorts.

These projects have been selected to represent a variety of locations in the State of Florida in the United States and along the Mediterranean Sea and Red Sea in Egypt. Your participation in this study would assist us greatly. Mr. Bakr Mourad Aly Ahmed, a Ph.D. student at Virginia Tech, will be in your area and will contact you prior to the date of the visit to schedule a convenient appointment time.

All information gathered during the site visit and interview will remain confidential. The data collected will be used only for research purposes. No individuals or projects will be identified by name in reporting of the results of the research.

If you have further questions or require additional information, we would be most happy to answer your inquiries. The telephone number is (540) 231-5506, fax (540) 231-3367, and e-mail [alyahmed@vt.edu](mailto:alyahmed@vt.edu) or [pmiller@vt.edu](mailto:pmiller@vt.edu).

Thank you for your time and cooperation.

Sincerely,



Patrick A. Miller, Ph.D., FASLA  
Professor and Head  
Landscape Architecture Department

/je

Dear Sir or Madam:

I am writing to request your assistance in a study of beach resorts design and planning that is being conducted at Virginia Tech. This study focuses primarily on the potential for applying sustainable design principles to coastal tourism development. The on-line survey is located at

<http://filebox.vt.edu/users/alyahmed/>

The results of this research will be useful to decision-makers as a guide for improving the quality of existing and future resort projects.

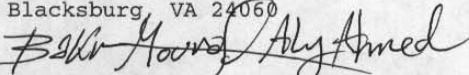
All data gathered will remain confidential, and will only be used for the research purposes. No individuals or projects will be identified by name in reporting the results of this research.

I would be happy to answer any questions. You may contact me at (540) 961-7009 voice and (540) 231-3367 fax, or email me at [alyahmed@vt.edu](mailto:alyahmed@vt.edu); also, you may contact professor Patrick Miller at the Landscape Architecture Dept. phone (540) 231 5506 and email [pmiller@vt.edu](mailto:pmiller@vt.edu)

We greatly appreciate your prompt reply.

Sincerely,

Bakr M. A. Ahmed,  
Doctoral Candidate  
211 W. Clay St.  
Blacksburg VA 24060



Postage-paid reply envelope is enclosed  
Please send it back within the deadline of the 14 of December, 1999

APPENDIX (C)

<b>Beach Resorts Research Survey</b>						
DESIGNERS / PLANNERS / CONTRACTORS QUESTIONNAIRE						
Respondent No. _____						
Resort No. _____						
0. Name one beach resort in which you played a role in the design and/or planning.						
		Resort name:				
		City & State:				
PART I: MEETING ENVIRONMENTAL CONCERNS						
1. To what extent do you believe most coastal resort developments in your country are developed in an environmentally sensitive manner?						
		Very few			almost all	
		(1)	(2)	(3)	(4)	(5)
2. To what extent do you believe environmentally sensitive coastal resort design is a significant environmental problem in your country?						
		not significant			very significant	
		(1)	(2)	(3)	(4)	(5)
3. What do you believe is the single most important environmental issue that a coastal resort designer/planner must resolve in developing an environmentally sound coastal resort?						
4. How environmentally sensitive is the resort that you planned or designed?						
		not sensitive			very sensitive	
		(1)	(2)	(3)	(4)	(5)
5. List one or more examples of how your resort is designed to respond to environmental factors?						
6. What could be done to improve your resort environmentally?						
7. What do you believe is the biggest obstacle in preparing plans that better respond to environmental factors?						
8. To what extent do you believe each of the following individuals/groups are concerned about environmentally sensitive coastal resort development?						
		not concerned				very concerned
a.	resort designers/planners	(1)	(2)	(3)	(4)	(5)
b.	resort managers	(1)	(2)	(3)	(4)	(5)
c.	owner/developer	(1)	(2)	(3)	(4)	(5)
d.	local residents	(1)	(2)	(3)	(4)	(5)
e.	resort users	(1)	(2)	(3)	(4)	(5)
f.	local government officials	(1)	(2)	(3)	(4)	(5)
g.	regional/state government officials	(1)	(2)	(3)	(4)	(5)

h.	national government officials	(1)	(2)	(3)	(4)	(5)
9.	In developing an environmentally sensitive coastal resort, how important is it that the design respond to each of the following aspects of the natural environment.					
		not important				Very important
a.	landform/topography	(1)	(2)	(3)	(4)	(5)
b.	soils	(1)	(2)	(3)	(4)	(5)
c.	streams/drainage	(1)	(2)	(3)	(4)	(5)
d.	vegetation	(1)	(2)	(3)	(4)	(5)
e.	wetlands	(1)	(2)	(3)	(4)	(5)
f.	terrestrial wildlife	(1)	(2)	(3)	(4)	(5)
g.	aquatic wildlife	(1)	(2)	(3)	(4)	(5)
h.	other ( )	(1)	(2)	(3)	(4)	(5)
10.	In developing an environmentally sensitive coastal resort, how important is it that the design respond to each of the following aspects of the cultural environment.					
		not important				very important
a.	historic features	(1)	(2)	(3)	(4)	(5)
b.	local architecture	(1)	(2)	(3)	(4)	(5)
c.	local customs and beliefs	(1)	(2)	(3)	(4)	(5)
d.	local social and health service	(1)	(2)	(3)	(4)	(5)
e.	local economy/employment	(1)	(2)	(3)	(4)	(5)
f.	local housing stock	(1)	(2)	(3)	(4)	(5)
g.	other ( )	(1)	(2)	(3)	(4)	(5)
11.	To what extent do you believe laws and regulations governing coastal resort development in your region are effective in protecting the environment?					
		not effective				very effective
a.	the natural environment	(1)	(2)	(3)	(4)	(5)
b.	the cultural environment	(1)	(2)	(3)	(4)	(5)
12.	To what extent do you believe that laws and regulations governing coastal resort development in your area restrict your ability to design successful coastal resorts?					
		not restrictive			too restrictive	
		(1)	(2)	(3)	(4)	(5)
<b>PART II: : POTENTIAL FOR SUSTAINABLE DESIGN</b>						
13.a	Are you aware of the concept of sustainable development?					
	Yes	( )	(No)	( )		
	If yes, please provide a short definition of what you believe it means.					
	Based on the UN Earth Summit (1990), <b>Sustainable Development</b> is defined as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs".					
13.b	How important is each of the following factors to achieve sustainability?					
		less important				very important
a.	use resources efficiently	(1)	(2)	(3)	(4)	(5)
b.	maintain air quality	(1)	(2)	(3)	(4)	(5)
c.	utilize site nature and climate in design	(1)	(2)	(3)	(4)	(5)
d.	Improve public participation & awareness	(1)	(2)	(3)	(4)	(5)
e.	provide quality maintenance programs	(1)	(2)	(3)	(4)	(5)
f.	enhance traffic & transportation modes	(1)	(2)	(3)	(4)	(5)
g.	control noise, dust, fool, pest pollutants	(1)	(2)	(3)	(4)	(5)
h.	ensure services and activities quality	(1)	(2)	(3)	(4)	(5)
i.	other ( )	(1)	(2)	(3)	(4)	(5)

14.	To what extent do you believe sustainable development principles are being incorporated into current coastal resort development?					
	not at all				very much	
	(1)	(2)	(3)	(4)	(5)	
15.	How important is it to incorporate sustainable development principles into coastal resort development?					
	not important				very important	
	(1)	(2)	(3)	(4)	(5)	
Why?						
16.	Did you incorporate sustainable design principles into your coastal resort design?					
	<input type="checkbox"/> Yes		<input type="checkbox"/> No			
	If yes, please list as many examples as you can.					
17.	To what extent do you believe each of the following individuals/groups are concerned about sustainable coastal resort development?					
		not concerned				very concerned
a.	resort designers/planners	(1)	(2)	(3)	(4)	(5)
b.	resort managers	(1)	(2)	(3)	(4)	(5)
c.	owner/developer	(1)	(2)	(3)	(4)	(5)
d.	local residents	(1)	(2)	(3)	(4)	(5)
e.	resort users	(1)	(2)	(3)	(4)	(5)
f.	local government officials	(1)	(2)	(3)	(4)	(5)
g.	regional/state government officials	(1)	(2)	(3)	(4)	(5)
h.	national government officials	(1)	(2)	(3)	(4)	(5)
18.	What do you believe is the biggest reason that sustainable design principles aren't used more often in coastal resort design?					
19.	How important do you believe each of the following is in achieving sustainable coastal resort development?					
		not important				very important
a.	recycling waste products	(1)	(2)	(3)	(4)	(5)
b.	recycling water	(1)	(2)	(3)	(4)	(5)
c.	use of passive energy technology	(1)	(2)	(3)	(4)	(5)
d.	preserving local customs and traditions	(1)	(2)	(3)	(4)	(5)
e.	satisfying basic human needs in the area	(1)	(2)	(3)	(4)	(5)
f.	ecological integrity	(1)	(2)	(3)	(4)	(5)
g.	using indigenous building materials	(1)	(2)	(3)	(4)	(5)
h.	use of non-toxic materials	(1)	(2)	(3)	(4)	(5)
I.	preserving cultural resources	(1)	(2)	(3)	(4)	(5)
J.	providing for spiritual harmony	(1)	(2)	(3)	(4)	(5)
k.	encourage less consumptive lifestyle	(1)	(2)	(3)	(4)	(5)
l.	other ( )	(1)	(2)	(3)	(4)	(5)
20.	To what extent are you familiar with the following concepts or ideas?					
		not				very

		familiar				familiar
a.	carrying capacity	(1)	(2)	(3)	(4)	(5)
b.	product life cycling	(1)	(2)	(3)	(4)	(5)
c.	eco-tourism	(1)	(2)	(3)	(4)	(5)
21.	Have you used the following concepts or ideas in your coastal resort design: carrying capacity, product life cycling and eco-tourism?					
	<input type="checkbox"/> Yes	<input type="checkbox"/> No				
	If yes, please describe.					
22.	Based on your understanding of each of the following ideas, how valuable do you believe they are as a tool for achieving sustainable design?					
		not valuable				very valuable
a.	carrying capacity	(1)	(2)	(3)	(4)	(5)
b.	product life cycling	(1)	(2)	(3)	(4)	(5)
c.	eco-tourism	(1)	(2)	(3)	(4)	(5)
d.	How important do you believe controlling each of the following capacity thresholds is in achieving sustainable beach resort development?					
	<b>CARRYING CAPACITY CATEGORIES</b>	not important (no relation)				very important (strong relation)
(1)	<b>Physical-Facility Capacity:</b>	(1)	(2)	(3)	(4)	(5)
	The level of tourist development or recreational activity beyond which facilities are "saturated"; or physical deterioration of the environment occurs through overuse or inadequate infrastructure network.					
(2)	<b>Ecological Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The level of tourist development or recreational activity beyond which the environment has previously experienced is degraded.					
(3)	<b>Social Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The level reached when local residents no longer welcome tourists because they are destroying the environment, damaging the local culture, and crowding them out of local activities.					
(4)	<b>Psychological Capacity</b>	(1)	(2)	(3)	(4)	(5)
	This is exceeded when tourists are no longer comfortable for reasons that can include perceived negative attitudes of the locals, crowding of the area (traffic jams), or the deterioration of the physical environment.					
(5)	<b>Economic Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The ability to absorb tourism functions without squeezing out desirable activities or to exclude other forms of industrial activities from developing.					
(6)	<b>Managerial Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The capability of the on-going management and operation system in relevant to maintenance programs, waste management, provided services and activities, etc.					
<b>PART III: BACKGROUND INFORMATION</b>						
23.	Your Profession:					
	<input type="checkbox"/> Architect	<input type="checkbox"/> Engineer	<input type="checkbox"/> Landscape Architect	<input type="checkbox"/> Planner	<input type="checkbox"/> Other:	
24.	Length of experience as design/planner:					
	<input type="checkbox"/> 1-2 Years	<input type="checkbox"/> 3-5 Years	<input type="checkbox"/> 6-10 Years	<input type="checkbox"/> 11-20 Years	<input type="checkbox"/> more than 21 Years	
25.	Experience as a coastal resort designer/planner:					
	<input type="checkbox"/> 1 resort	<input type="checkbox"/> 2-3 resorts	<input type="checkbox"/> 4-5 resorts	<input type="checkbox"/> 6-10 resorts	<input type="checkbox"/> 11 or more resorts	

26.	Education:			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
last educational institution:				
27.	Age:			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.	Number of the office employees:			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.	Citizenship:			
30.	Gender	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Tell us how to get in touch with you: (optional)</b>				
	Your name:		Phone:	
	Email:		Fax:	
We welcome all of your comments and suggestions:				
I would like to receive the final report of this survey:		Yes <input type="checkbox"/>	No <input type="checkbox"/>	
<p>Mail it back to: B. Mourad at 211 W. Clay St., Blacksburg, VA 24060</p> <p><b>Thank you!</b></p> <p>Copyright © 2000 [Bakr Mourad Aly Ahmed]. All rights reserved.</p>				

**APPENDIX (D)**

**Beach Resorts Research Survey**

MANAGERS / OWNERS / DEVELOPERS QUESTIONNAIRE

Respondent No. \_\_\_\_\_

Resort No. \_\_\_\_\_

0. Name one beach resort in which you currently participate in the management and/or ownership.

Resort name:

City & State:

**PART I: MEETING ENVIRONMENTAL CONCERNS**

1. To what extent do you believe most coastal resort developments in your country are developed in an environmentally sensitive manner?

Very few

almost all

(1)

(2)

(3)

(4)

(5)

2. To what extent do you believe environmentally sensitive coastal resort development is a significant environmental problem in your country today?

not significant

very significant

(1)

(2)

(3)

(4)

(5)

3. What do you believe is the single most important environmental issue that a coastal resort manager/owner must deal with in managing an environmentally sound coastal resort?

4. How environmentally sensitive is the resort that you currently manage or own?

not sensitive

very sensitive

(1)

(2)

(3)

(4)

(5)

5. List one or more examples of how your resort is managed to respond to environmental issues?

6. What could be done to improve your resort environmentally?

7. What is the biggest problem that resort managers face in managing coastal resorts in a manner that better responds to environmental concerns?

8. To what extent do you believe each of the following individuals/groups are concerned about developing environmentally sensitive coastal resorts?

not concerned

very concerned

a. resort designers/planners

(1)

(2)

(3)

(4)

(5)

b. resort managers

(1)

(2)

(3)

(4)

(5)

c. owner/developer

(1)

(2)

(3)

(4)

(5)

d. local residents

(1)

(2)

(3)

(4)

(5)

e. resort users

(1)

(2)

(3)

(4)

(5)

f. local government officials

(1)

(2)

(3)

(4)

(5)

g. regional/state government officials

(1)

(2)

(3)

(4)

(5)

h. national government officials

(1)

(2)

(3)

(4)

(5)



9.	In managing an environmentally sensitive coastal resort, how important are consideration of the following elements of the natural environment.					
		not important				Very important
a.	landform/topography	(1)	(2)	(3)	(4)	(5)
b.	soils	(1)	(2)	(3)	(4)	(5)
c.	streams/drainage	(1)	(2)	(3)	(4)	(5)
d.	vegetation	(1)	(2)	(3)	(4)	(5)
e.	wetlands	(1)	(2)	(3)	(4)	(5)
f.	terrestrial wildlife	(1)	(2)	(3)	(4)	(5)
g.	aquatic wildlife	(1)	(2)	(3)	(4)	(5)
h.	other ( )	(1)	(2)	(3)	(4)	(5)
10.	In managing an environmentally sensitive coastal resort, how important are considerations of the following aspects of the cultural environment.					
		not important				very important
a.	historic features	(1)	(2)	(3)	(4)	(5)
b.	local architecture	(1)	(2)	(3)	(4)	(5)
c.	local customs and beliefs	(1)	(2)	(3)	(4)	(5)
d.	local social and health service	(1)	(2)	(3)	(4)	(5)
e.	local economy/employment	(1)	(2)	(3)	(4)	(5)
f.	local housing stock	(1)	(2)	(3)	(4)	(5)
g.	other ( )	(1)	(2)	(3)	(4)	(5)
11.	To what extent do you believe laws and regulations governing coastal resort development in your region are effective in protecting the environment?					
		not effective				very effective
a.	the natural environment	(1)	(2)	(3)	(4)	(5)
b.	the cultural environment	(1)	(2)	(3)	(4)	(5)
12.	To what extent do you believe that laws and regulations governing coastal resort development in your reign restrict your ability to manage successful coastal resorts?					
		not restrictive			too restrictive	
		(1)	(2)	(3)	(4)	(5)
<b>PART II: POTENTIAL FOR SUSTAINABLE DEVELOPMENT</b>						
13.a	Are you aware of the concept of sustainable development?					
	Yes	( )	(No)	( )		
	If yes, please provide a short definition of what you believe it means.					
	Based on the UN Earth Summit (1990), <b>Sustainable Development</b> is defined as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs".					
13.b	How important is each of the following factors to achieve sustainability?					
		less important				very important
a.	use resources efficiently	(1)	(2)	(3)	(4)	(5)
b.	maintain air quality	(1)	(2)	(3)	(4)	(5)
c.	utilize site nature and climate in design	(1)	(2)	(3)	(4)	(5)
d.	Improve public participation & awareness	(1)	(2)	(3)	(4)	(5)
e.	provide quality maintenance programs	(1)	(2)	(3)	(4)	(5)
f.	enhance traffic & transportation modes	(1)	(2)	(3)	(4)	(5)
g.	control noise, dust, fool, pest pollutants	(1)	(2)	(3)	(4)	(5)
h.	ensure services and activities quality	(1)	(2)	(3)	(4)	(5)
i.	other ( )	(1)	(2)	(3)	(4)	(5)
14.	To what extent do you believe sustainable development principles are being incorporated into current					

coastal resort development?						
		not at all				very much
		(1)	(2)	(3)	(4)	(5)
15.	How important do you believe it is that sustainable development principles be incorporated into coastal resort development?					
		not important				very important
		(1)	(2)	(3)	(4)	(5)
Why?						
16.	Do you include sustainable considerations in the management decisions for your coastal resort?					
		( ) Yes				( ) No
If yes, please list as many examples as you can.						
17.	To what extent do you believe each of the following individuals/groups are concerned about sustainable coastal resort development?					
		not concerned				very concerned
a.	resort designers/planners	(1)	(2)	(3)	(4)	(5)
b.	resort managers	(1)	(2)	(3)	(4)	(5)
c.	owner/developer	(1)	(2)	(3)	(4)	(5)
d.	local residents	(1)	(2)	(3)	(4)	(5)
e.	resort users	(1)	(2)	(3)	(4)	(5)
f.	local government officials	(1)	(2)	(3)	(4)	(5)
g.	regional/state government officials	(1)	(2)	(3)	(4)	(5)
h.	national government officials	(1)	(2)	(3)	(4)	(5)
18.	What do you believe is the biggest reason that sustainable development principles aren't considered more often in coastal resort management?					
19.	How important do you believe each of the following is in achieving sustainable coastal resort development?					
		not important				very important
a.	recycling waste products	(1)	(2)	(3)	(4)	(5)
b.	recycling water	(1)	(2)	(3)	(4)	(5)
c.	use of passive energy technology	(1)	(2)	(3)	(4)	(5)
d.	preserving local customs and traditions	(1)	(2)	(3)	(4)	(5)
e.	satisfying basic human needs in the area	(1)	(2)	(3)	(4)	(5)
f.	ecological integrity	(1)	(2)	(3)	(4)	(5)
g.	using indigenous building materials	(1)	(2)	(3)	(4)	(5)
h.	use of non-toxic materials	(1)	(2)	(3)	(4)	(5)
I.	preserving cultural resources	(1)	(2)	(3)	(4)	(5)
J.	providing for spiritual harmony	(1)	(2)	(3)	(4)	(5)
k.	encourage less consumptive lifestyle	(1)	(2)	(3)	(4)	(5)
l.	other ( )	(1)	(2)	(3)	(4)	(5)
20.	To what extent are you familiar with the following concepts or ideas?					
		not familiar				very familiar
a.	carrying capacity	(1)	(2)	(3)	(4)	(5)
b.	product life cycling	(1)	(2)	(3)	(4)	(5)
c.	eco-tourism	(1)	(2)	(3)	(4)	(5)

21.	Have you used ideas related to carrying capacity, product life cycling and eco-tourism in the management of your resort?					
	<input type="checkbox"/> Yes	<input type="checkbox"/> No				
	If yes, please describe how.					
22.	Based on your understanding of each of the following ideas, how valuable do you believe they are as a tool for achieving sustainable development?					
		not valuable			very valuable	
a.	carrying capacity	(1)	(2)	(3)	(4)	(5)
b.	product life cycling	(1)	(2)	(3)	(4)	(5)
c.	eco-tourism	(1)	(2)	(3)	(4)	(5)
d.	How important do you believe controlling each of the following capacity thresholds is in achieving sustainable beach resort development?					
	<b>CARRYING CAPACITY CATEGORIES</b>	not important (no relation)			very important (strong relation)	
(1)	<b>Physical-Facility Capacity:</b>	(1)	(2)	(3)	(4)	(5)
	The level of tourist development or recreational activity beyond which facilities are "saturated"; or physical deterioration of the environment occurs through overuse or inadequate infrastructure network.					
(2)	<b>Ecological Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The level of tourist development or recreational activity beyond which the environment has previously experienced is degraded.					
(3)	<b>Social Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The level reached when local residents no longer welcome tourists because they are destroying the environment, damaging the local culture, and crowding them out of local activities.					
(4)	<b>Psychological Capacity</b>	(1)	(2)	(3)	(4)	(5)
	This is exceeded when tourists are no longer comfortable for reasons that can include perceived negative attitudes of the locals, crowding of the area (traffic jams), or the deterioration of the physical environment.					
(5)	<b>Economic Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The ability to absorb tourism functions without squeezing out desirable activities or to exclude other forms of industrial activities from developing.					
(6)	<b>Managerial Capacity</b>	(1)	(2)	(3)	(4)	(5)
	The capability of the on-going management and operation system in relevant to maintenance programs, waste management, provided services and activities, etc.					
<b>PART III: BACKGROUND INFORMATION</b>						
23.	Length of experience in resort management:					
	<input type="checkbox"/> 1-2 Years	<input type="checkbox"/> 3-5 Years	<input type="checkbox"/> 6-10 Years	<input type="checkbox"/> 11-20 Years	<input type="checkbox"/> more than 21 Years	
24.	Number of different coastal resorts managed:					
	<input type="checkbox"/> 1 resort	<input type="checkbox"/> 2-3 resorts	<input type="checkbox"/> 4-5 resorts	<input type="checkbox"/> 6-10 resorts	<input type="checkbox"/> 11 or more resorts	
25.	Education:					
	<input type="checkbox"/> grade school	<input type="checkbox"/> high school	<input type="checkbox"/> associate degree	<input type="checkbox"/> bachelor's degree	<input type="checkbox"/> graduate degree	
	last educational institution: ( )					
26.	Age:					
	<input type="checkbox"/> Under 20 years	<input type="checkbox"/> 21-25 years	<input type="checkbox"/> 26-30 years	<input type="checkbox"/> 31-35 years	<input type="checkbox"/> 36-40 years	
	<input type="checkbox"/> 41-45 years	<input type="checkbox"/> 46-50 years	<input type="checkbox"/> 51-60 years	<input type="checkbox"/> more than 61 years		

27. Size of resort managed:			
a.	acres / hectares?		
b.	number of units		
c.	number of employees		
28. Citizenship:			
29. Gender			
		( ) male	( ) female
<b>Tell us how to get in touch with you: (optional)</b>			
Your name:		Phone:	
Email:		Fax:	
We welcome all of your comments and suggestions:			
I would like to receive the final report of this survey:		Yes ( )	No ( )
<p>Mail it back to: B. Mourad at 211 W. Clay St., Blacksburg, VA 24060</p> <p><b>Thank you!</b></p> <p>Copyright © 2000 [Bakr Mourad Aly Ahmed]. All rights reserved.</p>			

**APPENDIX (E)**

**Beach Resorts Research Survey**

VISITORS / LOCAL COMMUNITY / PUBLIC QUESTIONNAIRE

**Respondent No.** \_\_\_\_\_

**Resort No.** \_\_\_\_\_

0. Name one beach resort you have visited recently!!!!						
Resort name:						
City & State:						
1. How many times have you visited this resort?						
	1 time	2-3 times	4-5 times	6-10 times	more than 10 times	
	(1)	(2)	(3)	(4)	(5)	
2. How satisfied were you with your stay at this resort?						
	not satisfied				very satisfied	
	(1)	(2)	(3)	(4)	(5)	
3. How attractive did you find this resort to be?						
	not attractive				very attractive	
	(1)	(2)	(3)	(4)	(5)	
4. What did you like best about this resort?						
5. What do you like least about this resort?						
6. How important are each of the following factors in selecting a coastal resort?						
		not important				Very important
a.	size and quality of the beach	(1)	(2)	(3)	(4)	(5)
b.	opportunity to visit historic sites	(1)	(2)	(3)	(4)	(5)
c.	swimming pool	(1)	(2)	(3)	(4)	(5)
d.	cost	(1)	(2)	(3)	(4)	(5)
e.	size and quality of housing units	(1)	(2)	(3)	(4)	(5)
f.	pleasant landscaping	(1)	(2)	(3)	(4)	(5)
g.	opportunities to visit with others	(1)	(2)	(3)	(4)	(5)
h.	opportunity to view wildlife and nature	(1)	(2)	(3)	(4)	(5)
i.	character of surrounding area	(1)	(2)	(3)	(4)	(5)
j.	opportunities for privacy	(1)	(2)	(3)	(4)	(5)
k.	quality of local shops and restaurants	(1)	(2)	(3)	(4)	(5)
l.	opportunities for diving	(1)	(2)	(3)	(4)	(5)
m.	opportunities for swimming in the ocean	(1)	(2)	(3)	(4)	(5)
n.	character of the architecture	(1)	(2)	(3)	(4)	(5)
o.	opportunities for relaxation and reflection	(1)	(2)	(3)	(4)	(5)
p.	other ( )	(1)	(2)	(3)	(4)	(5)

7.	How important is it to you that coastal resorts be developed in a manner that is sensitive to the natural and cultural environment?					
	not important				Very important	
	(1)	(2)	(3)	(4)	(5)	
8.	Do you believe most current coastal resorts are developed in a manner that is environmentally sensitive?					
	Yes	( )	(No)	( )	Don't Know	( )
9.	Based on the coastal resort you visited, please identify some things that you believe made the resort better environmentally?					
10.A	Are you familiar with the term "Sustainable Development"?					
	Yes	( )	(No)	( )	Don't Know	( )
	If yes, please describe what is meant by sustainable development.					
	Based on the UN Earth Summit (1990), <b>Sustainable Development</b> is defined as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs".					
10.B	In developing an environmentally sensitive coastal resort, how important are consideration of the following elements of the natural environment.					
		less important				very important
a.	landform/topography	(1)	(2)	(3)	(4)	(5)
b.	soils	(1)	(2)	(3)	(4)	(5)
c.	streams/drainage	(1)	(2)	(3)	(4)	(5)
d.	vegetation	(1)	(2)	(3)	(4)	(5)
e.	wetlands	(1)	(2)	(3)	(4)	(5)
f.	terrestrial wildlife	(1)	(2)	(3)	(4)	(5)
g.	aquatic wildlife	(1)	(2)	(3)	(4)	(5)
10.C	In developing an environmentally sensitive coastal resort, how important are considerations of the following aspects of the cultural environment.					
		less important				very important
a.	historic features	(1)	(2)	(3)	(4)	(5)
b.	local architecture	(1)	(2)	(3)	(4)	(5)
c.	local customs and beliefs	(1)	(2)	(3)	(4)	(5)
d.	local social and health service	(1)	(2)	(3)	(4)	(5)
e.	local economy/employment	(1)	(2)	(3)	(4)	(5)
f.	local housing stock	(1)	(2)	(3)	(4)	(5)
10.D	How important is each of the following factors to achieve sustainability?					
		less important				very important
a.	use resources efficiently	(1)	(2)	(3)	(4)	(5)
b.	maintain air quality	(1)	(2)	(3)	(4)	(5)
c.	utilize site nature and climate in design	(1)	(2)	(3)	(4)	(5)
d.	Improve public participation & awareness	(1)	(2)	(3)	(4)	(5)
e.	provide quality maintenance programs	(1)	(2)	(3)	(4)	(5)
f.	enhance traffic & transportation modes	(1)	(2)	(3)	(4)	(5)

g.	control noise, dust, fool, pest pollutants	(1)	(2)	(3)	(4)	(5)
h.	ensure services and activities quality	(1)	(2)	(3)	(4)	(5)
10.E How important do you believe each of the following is in achieving sustainable coastal resort development?						
		less important				very important
a.	recycling waste products	(1)	(2)	(3)	(4)	(5)
b.	recycling water	(1)	(2)	(3)	(4)	(5)
c.	use of passive energy technology	(1)	(2)	(3)	(4)	(5)
d.	preserving local customs and traditions	(1)	(2)	(3)	(4)	(5)
e.	satisfying basic human needs in the area	(1)	(2)	(3)	(4)	(5)
f.	ecological integrity	(1)	(2)	(3)	(4)	(5)
g.	using indigenous building materials	(1)	(2)	(3)	(4)	(5)
h.	use of non-toxic materials	(1)	(2)	(3)	(4)	(5)
I.	preserving cultural resources	(1)	(2)	(3)	(4)	(5)
J.	providing for spiritual harmony	(1)	(2)	(3)	(4)	(5)
k.	encourage less consumptive lifestyle	(1)	(2)	(3)	(4)	(5)
i.	others ( )	(1)	(2)	(3)	(4)	(5)
10.F How important do you believe controlling each of the following capacity thresholds is in achieving sustainable beach resort development?						
<b>CARRYING CAPACITY CATEGORIES</b>		not important (no relation)				very important (strong relation)
(1)	<b>Physical-Facility Capacity:</b>	(1)	(2)	(3)	(4)	(5)
The level of tourist development or recreational activity beyond which facilities are "saturated"; or physical deterioration of the environment occurs through overuse or inadequate infrastructure network.						
(2)	<b>Ecological Capacity</b>	(1)	(2)	(3)	(4)	(5)
The level of tourist development or recreational activity beyond which the environment has previously experienced is degraded.						
(3)	<b>Social Capacity</b>	(1)	(2)	(3)	(4)	(5)
The level reached when local residents no longer welcome tourists because they are destroying the environment, damaging the local culture, and crowding them out of local activities.						
(4)	<b>Psychological Capacity</b>	(1)	(2)	(3)	(4)	(5)
This is exceeded when tourists are no longer comfortable for reasons that can include perceived negative attitudes of the locals, crowding of the area (traffic jams), or the deterioration of the physical environment.						
(5)	<b>Economic Capacity</b>	(1)	(2)	(3)	(4)	(5)
The ability to absorb tourism functions without squeezing out desirable activities or to exclude other forms of industrial activities from developing.						
(6)	<b>Managerial Capacity</b>	(1)	(2)	(3)	(4)	(5)
The capability of the on-going management and operation system in relevant to maintenance programs, waste management, provided services and activities, etc.						
<b>PART III: BACKGROUND INFORMATION</b>						
11.	Citizenship:					
12.	Gender:	( ) male	( ) female			
13.	Number of people you visited the resort with?	( ) persons				
14.	Age:					
	( ) Under 20 years	( ) 31-35 years	( ) 46-50 years			
	( ) 21-25 years	( ) 36-40 years	( ) 51-60 years			
	( ) 26-30 years	( ) 41-45 years	( ) more than 61 years			
15.	Education:					

	<input type="checkbox"/> grade school	<input type="checkbox"/> high school	<input type="checkbox"/> associate degree
	<input type="checkbox"/> bachelor's degree	<input type="checkbox"/> graduate degree	last educational institution:
16.	Average length of stay at coastal resort:		(      ) days
17.	Month of the year you visited the resort:		(      )
18.	Average spending (\$\$\$/day) at coastal resort:		(\$      / day)
19.	Your average income:		
	<input type="checkbox"/> Under \$ 10,000	<input type="checkbox"/> \$ 30,000 – 40,000	<input type="checkbox"/> \$ 60,000 – 70,000
	<input type="checkbox"/> \$ 10,000 – 20,000	<input type="checkbox"/> \$ 40,000 – 50,000	<input type="checkbox"/> \$ 70,000 – 80,000
	<input type="checkbox"/> \$ 20,000 – 30,000	<input type="checkbox"/> \$ 50,000 – 60,000	<input type="checkbox"/> Over \$ 80,000
20.	What are the main purpose(s) of your trip?		
	<input type="checkbox"/>	natural sight seeing	
	<input type="checkbox"/>	visit historical & cultural places	
	<input type="checkbox"/>	involve in social activities	
	<input type="checkbox"/>	recreation	
	<input type="checkbox"/>	sports	
	<input type="checkbox"/>	other purposes	(      )
<b>Tell us how to get in touch with you: (optional)</b>			
	Your name:	Phone:	
	Email:	Fax:	
We welcome all of your comments and suggestions:			
I would like to receive the final report of this survey:		Yes (      )	No (      )
<p>Mail it back to: B. Mourad at 211 W. Clay St., Blacksburg, VA 24060</p> <p><b>Thank you!</b></p> <p>Copyright © 2000 [Bakr Mourad Aly Ahmed]. All rights reserved.</p>			